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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/929,380	08/13/2001	Satyendra Yadav	42390P11648	1017	
	7590 01/26/2007 KOLOFF TAYLOR & ZA	FMAN	EXAM	INER	
	IRE BOULEVARD	BULLOCK JR, LEWIS ALEXANDER			
	S, CA 90025-1030	ART UNIT	PAPER NUMBER		
			2195		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	01/26/2007	PAI	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

1)⊠ Responsive to communication(s) filed on 22 December 2006. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)⊠ Claim(s) 32-38 and 65-71 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)□ Claim(s) 32-38 and 65-71 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		Application No.	Applicant(s)				
Lawis A. Bullock, Jr. 2195		09/929,380	YADAV, SATYENDF	. Α			
- The MALLING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Eatherwise of time may be availated under the provisions of 37 CFR 1.13(b), no event, however, may reply be threefy find. If NO period for reply is uperfield above, the maintain statistics period will apply and will expert SN (8) MONTH's from the mailing date of this communication. Fallute to reply a uperfield above, the maintain statistics period will apply and will expert above the ANNO-DRE J. 30 St. 5, 133). Any reply recovered by the Office later than three monitors after the mailing date of this communication. Plant is the properties of the communication of the communication of the statistics of the application to distinct. 1) □ Responsive to communication(s) filed on 22 December 2006. 2a □ This action is FINAL. 2b) □ This action is finAl. 2c) □ This action is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) ② 2-38 and 65-71 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5□ □ Claim(s) ③ 2-38 and 65-71 is/are rejected. 7) □ Claim(s) ③ 3-38 and 65-71 is/are rejected. 7) □ Claim(s) ③ is/are objected to. 8) □ Claim(s) ③ is/are objected to. 8) □ Claim(s) ③ is/are objected to. 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on ⑤ is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abovance. See 37 CFR 1.121(d). 11) □ The drawing(s) filed on ⑤ is/are: a) □ accepted or b) □ objected to by the Examiner. Application Park and the drawing she	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extension of three may be available under the provisions of 37 CFR 1.35(a). In not event, however, may a regipt but finely filled - Extension of or traph is specified above, the maximum statutory period wis page, and will expire X(b) (MCMTH'S from the mailing date of this communication for regipt year. The provision is not extended period for regipt will, by a fault, cause the application to become ARADONED (65 U.S. € 133). Any pays notice by the fill of a time the filler extended period to regipt will, by a fault, cause the application to become ARADONED (65 U.S. € 133). Any pays notice by the fill of the time the filler extended period to regipt will, by a fault, cause the application, even if tensy field, may reduce any common planet term digitations. It is not making date of this communication, even if tensy filled, may reduce any common planet term digitations is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ○ Claim(s) 32-38 and 65-71 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. (b) ○ Claim(s) 32-38 and 65-71 is/are rejected. 7) ○ Claim(s) is/are allowed. (c) ○ Claim(s) is/are objected to. (c) ○ Claim(s) is/are objected to by the Examiner. 10) ○ The specification is objected to by the Examiner. 11) ○ The drawing(s) filed on is/are: a) ○ accepted or b) ○ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.35(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(g). 11) ○ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) ○ All b) ○ Certified copies of the priority documents		Lewis A. Bullock, Jr.	2195				
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Estatisation of the may be available under the provision of 37 cFR 1.1366, in no event, however, may a reply be timely flied after SIX (6) MONTHS from the mailing date of this communication. Failute to recy within the set or extended period for reply with 50 states, cause the adjustment than adjustment of the communication. Failute to recy within the set or extended period for reply with 50 states, cause the adjustment sea 37 cFR 1.794(b). Status 1) Responsive to communication(s) filed on 22 December 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 32-38 and 65-71 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 5) Claim(s) is/are allowed. 7) Is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) Copies of the certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received. 2. Certified copies of the p	• •			541/0			
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DETAILED ACTION

1. The indicated allowability of claims 32-38 and 65-71 are withdrawn in view of the newly discovered reference(s) to U.S. Patent 6,253,230. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 35 and 68 and are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The cited claims do not provide a tangible result that has real world value. The real world value of the invention is that any dispatcher that receives a packet that corresponds to the previously received broadcast lock stored in the table, redirects the packet to the dispatcher that issued the lock (hence dependent claims 36 and 69). These claims or some form of equivalent are required in order to have the tangible result of the redirecting. Just the act of broadcasting a message to various entities has no real world value because the operation in and of itself serves no purpose / practical application.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 32-38 and 65-71 are rejected under 35 U.S.C. 103(a) as being unpatentable over COULAND (U.S. Patent 6,253,230).

As to claim 32, COULAND teaches a method comprising: receiving a packet (client request packet) at one dispatcher (forward engine) of a plurality of dispatchers (engines both forward and control) (col. 7, lines 13-43), the plurality of dispatchers coupled with a plurality of servers (server); searching a local dispatch table of the one dispatcher (look up table for connection) (col. 7. lines 13-43); transmitting the packet from the one dispatcher to a server of the plurality of servers if the local dispatch table identifies the server (via forwarding the client request over the existing switched connection straight to the server if there is an existing connection) (col. 7, lines 13-43); otherwise transmitting the packet from the one dispatcher (forward engine) to a locking dispatcher (control engine) of the plurality of dispatchers (col. 7, lines 13-43). See also, col. 7, lines 44-57; col. 8, lines 17-32; col. 8, lines 46-67; col. 11, lines 12-32; col. 11, lines 41-44; col. 11, line 62 – col. 12, line 5; col. 14, lines 1-40). However, COULAND does not explicitly mention that a client lock. As used in the claims the client lock indicates that a server has not been selected for the client request, such that communications that have the client lock are forwarded to the locking dispatcher for selection of the server. COULAND teaches that should the forwarding engine indicate that no connection for the client request exist, hence a nil value or error value, the request is relayed to the control engine for selection of the server. Therefore, by

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determining that there exist no table entry associated with this request by the forwarding engine and subsequently relaying the request to a locking dispatcher, e.g. the control engine that selects a server, COULAND obviously meets the limitation of transmitting a packet to a locking dispatcher if the dispatch table includes a client lock, i.e. an indication that there exist no connection for the client request such that request are sent to the control engine for selection. This is further supported in COULAND wherein the forwarding engine will continue forwarding packets to the cluster using the routed path (path to the control engine) until this request is satisfied (col. 11, lines 41-44). In addition, COULAND teaches the when there exist no connection in the table, the forwarding engine checks whether it can select the destination server locally or whether it must go to the control engine (col. 8, lines 45-67). This indication can also be considered as a client lock wherein it provides an indication that the request must go the control engine.

As to claim 35, COULAND teaches a method comprising: receiving a first packet (client request packet) at one dispatcher (forwarding engine) of a plurality of dispatchers (both forwarding engines and control engines), the first packet including a connection request from a client (client) (col. 7, lines 13-43); creating a client lock (indication of no connection / route path identification to the control engine) on packets received from the client (client request packets), the client lock indicating that packets received from the client are to be transmitted to the one dispatcher (control engine) until a server is selected for the client (col. 11, line 12 – col. 12, line 24; ; wherein the forwarding engine

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will continue to forward packets to the cluster using the routed path until its request that the forwarding engine table is adjusted to the established channel for the client connection, e.g. synchronized with the control engine's table entry that established the connection); and broadcasting a dispatch table update from the one dispatcher to all other dispatchers of the plurality of dispatcher (via the forwarding engine is synchronized with various back-up forward engines /control engine in case the forwarding engine fails) (col. 14, lines 1-40). However, COULAND does not explicitly detail that the update message is an indication of the client lock. It would be obvious to one of ordinary skill in the art that since the goal of the fault-tolerance of the forwarding engine is to avoid a single point of failure by synchronizing the executing forwarding engines table entries and routing information with a back-up engines, that it would also contain the route path identification to the control engine that is used when packets are received that have no assigned server (see col. 13, line 48 – col. 14, line 18).

As to claim 33, COULAND teaches the steps of selecting a server from the plurality of servers; and transmitting the packet from the locking dispatcher to the selected server (col. 7, lines 21-47).

As to claim 34, COULAND teaches broadcasting a dispatch table update from the locking dispatcher (control engine) to all other dispatchers (forwarding engine and backup forward engines) of the plurality of dispatchers, the dispatch table update identifying the selected server (via control engine forwarding the selected server

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switched address to the forward engine such that the forward engine will forward any subsequent packet to the server) (col. 7, lines 44-57; col. 8, lines 15-32). See also col. 11, line 12 – col. 12, line 24, wherein the forwarding engine will continue to forward packets to the cluster using the routed path until its request that the forwarding engine table is adjusted to the established channel for the client connection, e.g. synchronized with the control engine's table entry that established the connection. It would be obvious that since the forwarding engine contains a route path identifier to the control engine that this is the client lock.

As to claim 36, COULAND teaches receiving at least a second packet at another dispatcher (back-up forwarding engine) of the plurality of dispatchers; and transmitting the second packet from the another dispatcher to the one dispatcher (via the back-up forwarding engine having the same information as the primary forwarding engine before its failure such including the route to the control engine wherein the forwarding engine will continue forwarding packets to the cluster using the routed path until the request for a server selection is satisfied, therefore subsequent request are rerouted to the control engine until a server is selected based on the indication of the route) (col. 11, line 41 – col. 12, line 5; and col. 14, lines 1-40).

As to claim 37, COULAND teaches selecting a server from a plurality of servers coupled with the plurality of dispatchers (via the control engine selecting a server) (col. 7, lines 21-43); and transmitting the first packet and the second packet to the selected

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server (via the initial client request was forwarded by the control engine and subsequent request are forward on the same connection) (col. 7, lines 44-57).

As to claim 38, COULAND teaches broadcasting another dispatch table update from the one dispatcher to the all other dispatchers, the another dispatch table update identifying the selected server (via control engine forwarding the selected server switched address to the forward engine such that the forward engine will forward any subsequent packet to the server) (col. 7, lines 44-57; col. 8, lines 15-32). See also col. 11, line 12 – col. 12, line 24, wherein the forwarding engine will continue to forward packets to the cluster using the routed path until its request that the forwarding engine table is adjusted to the established channel for the client connection, e.g. synchronized with the control engine's table entry that established the connection. It would be obvious that since the forwarding engine contains a route path identifier to the control engine that this is the client lock.

As to claims 65-71, reference is made to an article of manufacture that corresponds to the method of claims 32-38 and is therefore met by the rejection of claims 32-38 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis A. Bullock, Jr. whose telephone number is (571)

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272-3759. The examiner can normally be reached on Monday-Friday, 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 22, 2007

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